

F.H.W.A. REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	MD			

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF A HAZARD IDENTIFICATION BEACON ON EASTBOUND US 50 EAST OF MD 309 (BLACK DOG ALLEY/AIRPORT ROAD) IN TALBOT COUNTY. US 50 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION

THE HAZARD IDENTIFICATION BEACON WILL OPERATE IN A FLASHING MODE WITH THE SIGNAL INDICATIONS FLASHING YELLOW.

CONTROLLER REQUIREMENTS

INSTALL A TWO-CIRCUIT FLASHER UNIT IN A "G" TYPE POLE MOUNTED CABINET.

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

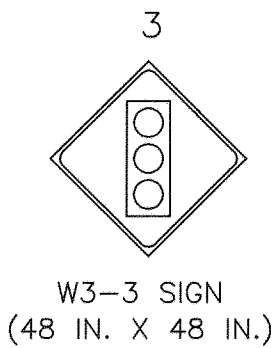
ITEM NO.	QUANTITY	DESCRIPTION
9014	2 EACH	12 IN., ONE-WAY, ONE-SECTION (V) TRAFFIC SIGNAL HEAD WITH ADJUSTABLE BRACKET FOR MAST ARM MOUNTING AND TUNNEL VISORS.
9068	1 EACH	TWO CIRCUIT FLASHER UNIT
9076	1 EACH	CABINET - "G" TYPE POLE MOUNT
9089	16 S.F.	SHEET ALUMINUM SIGNS TO CONSIST OF : - 1 EACH W3-3 SIGN (48 IN. X 48 IN.) - MAST ARM MOUNT

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

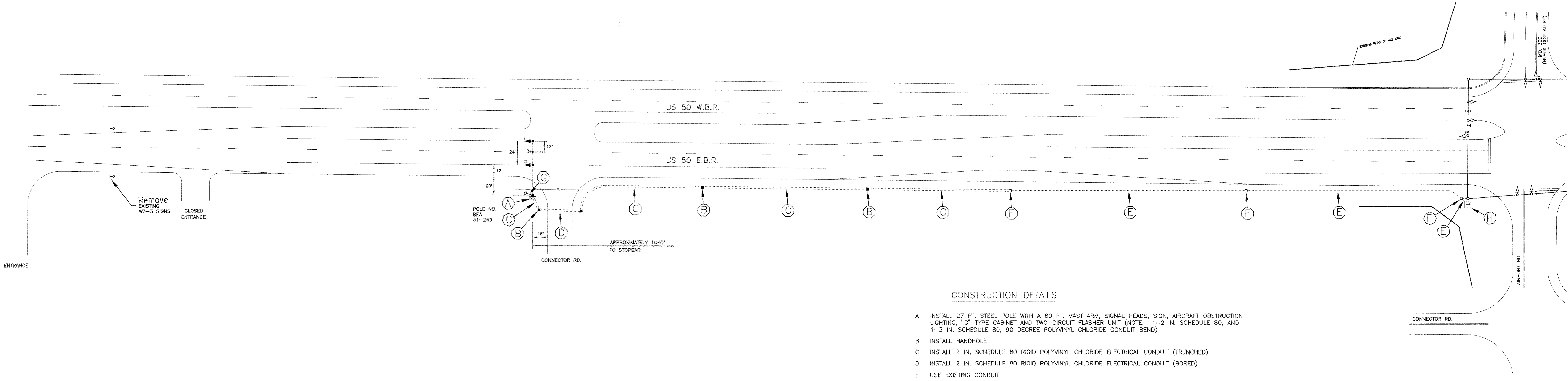
ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EACH	MAINTENANCE OF TRAFFIC
2001	1 C.Y.	TEST PIT EXCAVATION
8001	5 C.Y.	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
8011	2 EACH	INSTALL SIGNAL HEAD
8016	4 EACH	FURNISH AND INSTALL MICRO-LOOP PROBE SET WITH 500 FT. LEAD-IN
8019	1 EACH	INSTALL CONTROLLER AND CABINET - POLE MOUNT
8024	500 L.F.	FURNISH AND INSTALL 2 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8026	50 L.F.	FURNISH AND INSTALL 2 IN. SCHEDULE 80 RIGID PVC CONDUIT - BORED
8033	4 EACH	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8034	1 EACH	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8039	1140 L.F.	FURNISH AND INSTALL 12 PAIR COMMUNICATION CABLE, JELLY-FILLED (UNDERGROUND)
8043	120 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE- 3 CONDUCTOR (NO. 14 A.W.G.)
8049	15 L.F.	FURNISH AND INSTALL STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
8048	60 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE- 1 CONDUCTOR (NO. 8 A.W.G.) TRIN/TWIN
8054	16 S.F.	INSTALL OVERHEAD SIGNS
8069	30 L.F.	FURNISH AND INSTALL 1 IN ELECTRICAL CONDUIT - GALVANIZED RISER
8070	1 EACH	CONTROL AND DISTRIBUTION EQUIPMENT
8083	1 EACH	FURNISH AND INSTALL MAST ARM POLE AND 60 FT MAST ARM
NEG.	1 EACH	FURNISH AND INSTALL AIRCRAFT OBSTRUCTION LIGHTING, DUAL LIGHT WITH TRANSFER RELAY

PROPOSED SIGNS

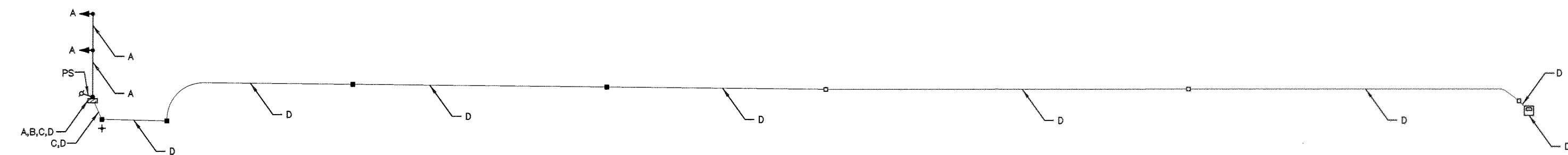


PROPOSED SIGNAL HEADS

1,2  
(Y)  
12"



WIRING DIAGRAM



WIRING KEY


- A-B } 3-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- C } STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
- D } 12 PAIR VOICE GRADE INTERCONNECT CABLE
- PS } PROPOSED ELECTRIC SERVICE
- + } 3/4 IN. X 10 FT. GROUND ROD

CONSTRUCTION DETAILS

- A INSTALL 27 FT. STEEL POLE WITH A 60 FT. MAST ARM, SIGNAL HEADS, SIGN, AIRCRAFT OBSTRUCTION LIGHTING, "G" TYPE CABINET AND TWO-CIRCUIT FLASHER UNIT (NOTE: 1-2 IN. SCHEDULE 80, AND 1-3 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE CONDUIT BEND)
- B INSTALL HANDHOLE
- C INSTALL 2 IN. SCHEDULE 80 RIGID POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED)
- D INSTALL 2 IN. SCHEDULE 80 RIGID POLYVINYL CHLORIDE ELECTRICAL CONDUIT (BORED)
- E USE EXISTING CONDUIT
- F USE EXISTING HANDHOLE
- G PROPOSED ELECTRICAL SERVICE

**T**RAFFIC **C**ONCEPTS, INC.

Brightview Business Center  
8258 Veterans Highway  
Suite 19B  
Millersville, MD 21108  
(410) 987-0427

REVISIONS	APPROVALS	REVISIONS	<div> MARYLAND DOT - STATE HIGHWAY ADMINISTRATION Office of Traffic &amp; Safety TRAFFIC ENGINEERING DESIGN DIVISION  HAZARD IDENTIFICATION BEACON EASTBOUND US 50 EAST OF MD 309 Loc mile # 20005008.72</div>			
	<div>Assistant Division Chief</div>					
	<div>Asst. District Engineer, Traffic</div>		DATE: 9-22-97	DRAWN BY: T. ZAYDEL	F.A.P. NO.	PLAN SHEET NO.:
	<div>10/15/97</div>		SCALE: 1" = 50'	DESIGNED BY: T. ZAYDEL	S.H.A. NO. AW276A53/AW276B53	TS-3749
	<div>Chief, Traffic Engineering Design Div.</div>		APPROVED BY:	CHECKED BY: K. SCHMID	COUNTY: TALBOT	SHEET NO. 1 OF 1
	<div>Director, Office of Traffic and Safety</div>					